



THE COMMUNICATOR



Mailing Address: P. O. Box 976, Nokomis, FL 34274

W4AC Repeaters: 444.100 MHz (DMR) & 146.805 MHz (-) (PL100Analog)

Incorporated 1984

<http://www.tamiamiarc.org>

June, 2023

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President's message .. KN4BAR

Greetings from the Big Apple. Patty and I are spending the last two weeks of May as tourists doing NYC and Boston.

Our VE team had nine candidates in June for license testing. One of those became a new first year member with a technician license, and four of those testing were current members who upgraded their licenses. Congratulations to all. The TARC license upgrade initiative is off to a fine start. We had three members take advantage last month and now have a total of seven club members that have upgraded their license. And, there's one month to go in the club's upgrade offer. Test by July 8 and receive a \$50 DxEngineering gift card and your 2024 club dues will be paid in advance.



Atop Empire State Bldg.

Please make plans to participate in ARRL field day the last weekend in June. There is some concern that we may not be able to use the Coast Guard auxiliary location on the island. No one seems to know for sure when the Air Force will start construction at that site. Some of our board members have been exploring alternative locations; but, so far, nothing as nice as the air-conditioned comfort of the Coast Guard facility has been found. We hope that by our June club meeting date we will have a location confirmation. The June after-meeting presentation will be given by Frank W2XYZ. He will discuss logging software that will be used during field day, and will explain how to use it properly.

In May the membership voted to not have meetings in July and August for a summer break. So, after our June meeting, we won't get together again until September. I wish everybody a happy and safe summer season and as this song goes, see you in September.

73, Paul, KN4BAR

Next Issue

Field Day
Report
July/August
Issue
Published
7/15/23

Next meeting 7:00 PM, Wednesday, June 14, 2023 at Venice Presbyterian Church Fellowship Hall, 825 The Rialto, Venice, 34285

TAMIAMI AMATEUR RADIO CLUB *Minutes of the 5/10/23 Meeting*

Elmer assistance **hour from 6 - 7 pm for information and mentoring** of interested ham radio operators. So we can be better prepared, tell us what you need help with by email to:

askemer@tamiamiarc.org

Meeting called to order at 7pm. followed by flag salute.

Introductions:

Visitors – Dave Moulds, Patsy Fennell (Chet's XYL) Lara Gan (Alex's XYL)

New members – Phil House, KD8HTS.

Remaining Introductions - Introductions from all remaining people.

SECRETARY'S REPORT: Paul, KN4BAR –. Motion to accept the minutes of the April 12th meeting as published in the May Communicator was made by Steve Froggatt, KN4NFX, was seconded by Paul Abuchon, K1YOU, and was passed by unanimous voice vote.

CORRESPONDENCE: **None.** Reported by Gary Youngberg, W8SKI

TREASURER'S REPORT: Frank Wroblewski W2XYZ

Gave summary for the period ending 4/30/2023. Beginning balance \$25,280.37, receipts this period were \$656.00. Expenses were \$3,688.80 plus \$5,000 transferred to Vanguard Money Mkt. Acct. Ending balance was \$22,477.45.

Gave information that 12 tablets were purchased for VE exams, and new rental facility for TARC equipment storage.

Motion to approve the treasurer's report was made by Steve Froggatt, KN4NFX, and seconded by Gary Youngberg, W8SKI. The motion was passed by unanimous voice vote.

COMMITTEE REPORTS:

SUNSHINE; Jim Shortill, KJ4NDO. Reported the passing of Jesse Snyder on April 16.

VE TESTING; Paul Nienaber KN4BAR; 8 candidates were tested with all passing. John McEnerney, KQ4ELH, passed upgrade to General. TARC will switch to electronic testing in June.

LIAISON TO QCWA; by Nancy Heinrich, N4ZM. QCWA meets at 11 am on the first Monday of each month from November thru May at Denny's in Sarasota. QCWA will be taking a summer recess and will be resuming their meetings on the first Monday in Oc-

tober and thereafter.

REPEATER / TECHNICAL; Frank Wroblewski, W2XYZ. Frank reported all repeaters operating well. 2 M repeaters have normal activity. DMR net is on Tuesdays @ 7pm. Analog 2M net is Thursdays @ 7:30pm, with 10M net following on 28.460 MHz USB.

REMOTE STATION UPDATE; Tom Shrilla, W8QJF, travelling. Paul Nienaber, KN4BAR, mentioned that remote station access code is available to club members in good standing.

PIO INFORMATION AND REPORT; Dwight Sullivan, KT4DDS.

There are 280 followers of TARC on Facebook. Plans on Field Day are being developed, location not yet confirmed due to uncertain use of USCG station. Showed the draft of the new tri-fold brochure, which will include QR codes.

Cost of 750 brochures is \$277.50. Following discussion, a motion was made by Paul Nienaber, KN4BAR, to order 750 brochures and 1000 TARC business cards for \$330.00. The motion was seconded by Nancy Heinrich, N4ZM, and was passed by unanimous voice vote.

MEMBERSHIP; Paul Nienaber, KN4BAR. Paul reported 156 total club members; 134 full members, 5 associate members, 4 first year free members, and 12 life members. He is reaching out to the associate members regarding their efforts to take the Technician exam.

ANNOUNCEMENTS

ARRL Dues; The TARC will be supporting and endorsing the upcoming ARRL dues increase.

The QRZ W4AC Page is now managed by Paul Nienaber, KN4BAR

Memorial "End of Watch" Call for SK's initiated on TARC Radio nets; Paul Nienaber, KN4BAR.

A traditional final radio call will be made on club radio nets to serve as tribute to our silent key members.

OLD BUSINESS

TARC Club Ham Reference Library; Brian Jacobson, K1JBD.

Existing books in the collection are being catalogued by Brian. Suggestions from the club are requested to improve the collection content. Will be developing a location for storage. Has reviewed the collection of the books at Wm. Jervey Library at Venice. Some of the versions are found to be out of date. Donations of

Continued >>>>

TARC Minutes, continued

current instructional manuals and handbooks are being sought. Jervey Library staff is putting some of the manuals on hand into the circulating collection so they may be checked out.

NEW BUSINESS:

Field Day, June 24- 25 2023, Local Planning; Paul Nienaber KN4BAR.

Field Day is tentatively set at Venice USCG station. An alternate location may be necessary due to the station’s questionable availability. Suggestions for other locations should be made to Paul.

TARC Equipment Management (AKA The “Tool Crib”) Richard MacCReady, KK4AHZ.

Paul developed a procedure and policy guide for borrowing and sign-out of the club’s equipment. An inventory is being made of the collection, and club ID stickers will be applied to the items to be loaned. Length of loan is 7 days, with permission to 14 days by request. Any additional loan period is only available by the BOD’s permission

The policy was discussed and a motion was made by Steve Froggatt, KN4NFX, to approve the tool crib loan policy and was seconded by Gary Youngberg, W8SKI. The policy was passed by unanimous voice vote. The invoice for the ID labels was presented for payment, amount was \$67.30.

Recommend Conrad Owens WA3RRS for Life Membership; Frank Wroblewski, W2XYZ.

A motion was made by San Yoder, K3SY, to elect to Life Member status, Conrad Owens, WA3RRS, for his faithful service to TARC, including two years as president. Conrad is moving to Ohio. The motion was seconded by Paul Nienaber, KN4BAR, and was passed by unanimous voice vote.

Review number of Directors; Consider going to 5 directors from current 8; Paul Nienaber, KN4BAR.

This item to be discussed in June meeting, and should be enacted for the Director’s term year 2024.

Call for vote not to hold membership meetings in July and August, 2023 (for Summer break).

The motion was made my Mike Lechky, W0MJL, not to hold membership meetings for July and August, 2023. The motion was seconded by Steve Froggatt, K4NFX, and was passed by majority voice vote.

Approve cost difference increase for purchase of mast/tripod to go with Buddi-Hex antenna; Paul Nienaber,KN4BAR.

The antenna and support mast sustained some damage due to sudden wind, and the mast / tripod needs upgrade for safe future use. The additional cost is \$259.00 and was discussed. A motion was made by Steve Froggatt, KN4NFX, that TARC would approve the additional cost of \$259.00. The motion was seconded by Paul Aubuchon, K1YOU, and was passed by unanimous voice vote.

Other new business: None.

Comments: None

ADJOURNMENT: Moved by Steve Froggatt, KN4NFX, seconded by Gary Youngberg, W8SKI. The motion was passed by unanimous voice vote at 8:13 pm.

Attendance: Number of members 38. Number of guests 3.

Tonight’s Meeting Program: Winlink and Vara Emails, Paul Neinaber, KN4BAR.

Next Meeting Date: Wednesday, June 14, 2023 @ 7PM.

Respectfully Submitted,
Gary Youngberg, W8SKI, Recording Secretary



- June 14 - Frank Wroblewski, W2XYZ – Field Day Computer logging system.**
- July and August - Summer break**
- September 13 - Real time flight tracking - Tom Waters, KE4RXM**
- October 11 - Evolution of Ham Radio from the 1930s – Al Culbert, K0AL**
- November 8 - "File of Life" - Battalion Chief Steve Worobel, Venice Fire Department**
- December 13 - No official program - Holiday events**

WELCOME NEW MEMBERS

Date Joined	Memb.Type	First Name	Last Name	Call Sign	ARRL Memb.	FCC License Class
13-May-23	First Year	Dave	Moulds	KQ4IOI	YES	Technician
17-Apr-23	Member	Jack	Mrozak	K2CTH	YES	General
29-Apr-23	Associate	Matt	Palmer	UNKNOWN		None
2-May-23	Member	Farrel	Vogelhut	KC1ENH	YES	General

CHASING DX CQ DX CQ DX.... June 2023

DX Editor: Tony KX1G
KX1G@ARRL.NET

Announced Top 100 DXpeditions in June

Dates	Entity	Call Sign	QSL info	Comments
June 1-10	Central Kiribati #38	T31TT	Check DXWorld.net	By Rebel DX Group; 160-10m; CW SSB FT8

Also expected: Malawi 7Q7WW, Faroe Is. OY.St. Pierre & Miguelon FP.

Source of Announced DX Operations: <https://www.ng3k.com/misc/adxo.html>

(HOT NEWS!) ARRL CEO David Minster, NA2AA, weighs in on DXCC

Be sure to read David Minster's column in the May issue of QST, page 9, as he weighs in on intentional QRM, success or failure of DXpeditions, and the DXCC rules. Then join the crowd and tell me what you think.

Answer to the May Question of the Month

Which continent has the greatest number of active entities (aka countries), which has the least, and which two entities count for 2 continents?

The easy part was determining which continent has the most DXCC entities (Answer: Africa 77) and which has the least (Answer: Antarctica 2).

The third part ...well, there are two ways to answer. If you consulted the DXCC listings, your answer was two: Maldives in Asia and Africa and Türkiye (the country formerly known as Turkey) in Europe and Asia. But if you looked on a map or consulted Wikipedia, you would know there are others. They just aren't listed that way in the DXCC program.

The elephant in the room is Russia. It doesn't take a genius to see half the country geographically and 90% in terms of population, places Russia squarely in Europe. That still leaves a big chunk of real estate in Asia. See this Wikipedia page.
https://en.wikipedia.org/wiki/European_Russia.

But wait! Steve, K4EU, points out that Iceland sits on the North America and Eurasian tectonic plates (It's the only place in the world where you can actually stand on two continents at the same time) and Egypt (Africa) considers a small part of the Sinai Peninsula (Asia) to be its territory. This same logic applies to former Russian countries Azerbaijan, Kazakhstan,

and Georgia and the south pacific countries of Indonesia, the Philippines, Papua New Guinea, and Singapore.

So why aren't they listed this way? As ARRL CEO David Minster said in his column in the April issue of QST, DXCC rules are man-made. I see this as one area where they should catch up with current geography.

Question of the Month for June 2023

Here's your chance to play DX Advisory Committee (DXAC)!

For each of the following DXCC Entities choose either (1) to place on the list of DXCC Deleted Countries or (2) choose to let it remain active, and state your reasoning.

- **North Korea, P5 (ClubLog Most Needed #1)**
- **Scarborough Reef, BS7H (ClubLog #4)**
- **Glorioso Island, FT/G (ClubLog #10)**
- **Name an entity of your choice**

I will convey the results of our informal survey to the DXAC

Remember the golden DX Chasing rule: Work 'em first. Chase down the QSL later.

73!
KX1G

W4AC makes its mark at Florida QSO Party

598 CW & 656 SSB contacts amassed for 213,324 points

by Frank, W2XYZ

The Florida QSO Party was held on April 29&30 this year. Once again, the Tamiami Amateur Radio Club participated. As previous years, Al, K0AL, graciously allowed us to take over his home and surroundings for those two days. Unlike previous years, we had decent propagation and did fairly well, but I'm getting ahead of myself in reporting this event. Let me back up a bit.

To begin with, the TARC Board of Directors approved the club's participation in the event. So I registered W4AC with the Florida Contest Group as a participant. There were a couple of individual stations participating from Sarasota County, but we were the only club station representing Sarasota County. Since hams in the other 49 States will try to make contact with the 67 counties in Florida, I knew if we had a good signal we would be very busy those 20 hours of FQP.

Our plan was to operate a phone station with our new Hexbeam on high power (500 watts) and use Al's beam on our CW station at 100 watts. Steve NS4P, Al K0AL, and myself installed the club's Icom 7300's and ancillary equipment on Thursday. Several club members went to Al's cottage after breakfast on Friday and set up the club's new Hexbeam on Jim's (KJ4NDO) tripod and telescoping pole. The Hexbeam was up about 25 feet and tested beautifully. Flat SWR on all bands. Equipment and antennas all tested well, so we were ready to operate beginning at noon on Saturday.

Noon on Saturday arrived and so did the stations looking for SAR (Sarasota County). The SSB and CW station stayed busy, even

though propagation was okay, but not the best. At 10 PM we closed the stations for the night as required in this event. Saturday night (actually Sunday morning) it was stormy – a little rain, but lots of wind. Was I worried? No, I wasn't; because I knew we had sufficient guys

on the Hexbeam. Jim and I met at Al's Cottage a little before 8 AM on Sunday to begin our second 10 hours of operation. We were standing outside looking at how the Hexbeam survived the high winds and complimenting each other about what a good job we did on putting it up. Just then, while still looking at the Hexbeam, an updraft lifted the beam off the pole. It rose about a foot or two off the pole and then flipped sideways and came crashing to the ground. Most unfortunately, one of the fiberglass spreader arms broke on impact. We were unable to use the Hexbeam for the SSB station. As we were gathering the parts, Shaun KO4YAX arrived. We explained what just happened and he helped in disassembling the antenna and packing it away.

With the Hexbeam out of commission, we had to rely on the antennas on Al's tower. During the morning the CW station operated on 40 meters with Al's beam and the SSB was on 20 meters. As the sun rose in the sky, 40 went dead and we put the CW station on 15 meters. It was slow going making any



 A photograph of a laptop screen displaying a real-time running total for the Florida QSO Party. A circular highlight is around the table.

Band	Mode	QSOs	Pts	Mu1	Pt/Q
7	CW	203	406	6	2.0
14	USB	61	58	3	1.0
14	CW	178	354	1	2.0
21	USB	335	420	50	1.0
21	CW	213	48	4	2.0
28	CW	83	82	4	1.0
	Total	Both	1077	8	0
	Score:		186,144	1662	112
	Q's				9.6

Continued >>>>

Florida QSO Party results, continued

contacts on 15, but 20 was still doing well on phone. In the afternoon, 15 became totally useless and we closed the CW station. Our phone station was doing tremendous on 20 meters. By the time 6 PM came along and we had to end the contest, we still had stations calling us, but we were not allowed to answer them.

So how did we do? In a word, very well (sorry, that's two words). We made 598 CW contacts and 656 phone contacts for a total of 213,324 points. Last year we made 874 CW contacts and 332 phone contacts for a total of 148,128 points. Doing the math, we did 44 % better this year compared to last year. Just think what we could have done had the Hexbeam not crashed.

The real credit goes to AI for use of his facilities and his total support. Also thanks to the post-Perkins crew that erected and securely guyed the tripod and pole holding the Hexbeam on Friday. A big thanks to the following operators that gave up their weekend in support of the club: Chet KG4IYS, AI K0AL, San K3SY, Andy KB1HIP, Jim KJ4NDO, Shaun KO4YAX, Nancy N4ZM, Randy KO4PIV, Mike KQ4ELI, Brian W1JBD, Tom W4IEE, Tom, K7ONE, and others (whose efforts are not forgotten, only I can't remem-

ber their names at the time of this writing.)

In summary, we had a great time and did very well - considerably better than last year, and we didn't even have two stations operating the whole time. We learned the importance of having the right equipment for doing the job right. Meaning, we need the correct Buddipole mast system that properly mates with the Hexbeam.

At the May club meeting members approved the acquisition of the Mastwerks (Buddipole) tripod and pole. It was ordered from Buddipole at Hamvention, so it should be here in plenty of time before Field Day. The broken spreader arm has been replaced. While putting the new arm in the carrying bag and removing the old broken arm, it was discovered a second arm is also broken. I talked with a representative from Buddipole and spoke of our dilemma. He explained to me how to repair the broken arm for \$2.75 and the repair part has also been ordered.

Several operators gained additional experience with operating in a contest environment, so we should be in good shape for Field Day. I for one can hardly wait.

73, Frank Wroblewski, W2XYZ



K4A Special Event Station to be activated to honor 9-11 victims

Alabama Contest Group to sponsor event in September

I (K3SY) recently received an email from Robert Beaudoin, WA1FCN, of the Alabama Contest Group announcing their activation of special event station K4A. He was aware of our operation of K4S and thought we might be interested in participating. Here are the details:

Special Event to Honor the Victims of 9-11 NewYork City, Shanksville PA, and Washington D. C. Year three.

- Sept. 8, 2023 00:01 GMT till Sept. 12, 2023 23:59 GMT
- Many members of the ACG will activate K4A for the third year.
- This year it will be called "9-11 Still in Our Hearts and Mind"
- We will operate all modes - SSB - FT8 - CW and RTTY.
- We will try to be on all bands 160 through 10 meters. A special QSL will be available, and like last year, to those who contact K4A on 3 bands using any combination of modes, we will offer a full color glossy certificate. It will be mailed in a full size Manila envelope with all postage paid by the ACG even if you are DX. Put each QSO information on your QSL. We request a \$2.00 donation to help cover cost.
- Contact/QSL - WA1FCN, Robert Beaudoin, 970 Mountainview Rd., Cordova AL 35550



TARC well represented at Hamvention

by
Frank,
W2XYZ



The TARC green shirts were there to be seen, with a couple missing the “class photo”

My favorite time of the year is the third weekend in May. That’s when Hamvention is held. The Dayton Hamvention, is now being held at the Greene County Fairgrounds in Xenia, Ohio. Hara’s Arena, home to the Dayton Hamvention for many, many years (probably too many) moved to Xenia in 2017. Hara’s had badly fallen into disrepair due to financial problems and had been barely usable its last few years. The owners finally closed the arena and the DARA club that sponsor’s Hamvention went scouting for an alternate venue.

I don’t know what places they thought of using, but the fairgrounds in Xenia turned out to be a great choice. All was not smooth in the beginning. Torrential rain on what was a grassy field turned a parking lot turned to disaster. The mud was so bad that many cars had to be pulled out by farm tractors. Traffic was another issue. I’m not sure of the cause, but I know the result was cars waiting forever to make it across most intersections. Then there was the shortage of buildings which was remedied by

erecting three large tents. Unfortunately, the tents were hot and dark inside. The flea market area had problems with mud too. It was a “Slip and Slide,” due to the mud, which meant carrying your newly found treasure was a challenge in itself.

As two years passed, significant improvements were made. Gone the ridiculous traffic problem. Another building was erected. The flea market area saw improvements with grass and crushed asphalt walkways. Parking downtown and at the high school was arranged with frequent shuttles to and from the fairgrounds. Just when things would have been right for the 2020 Hamvention, the COVID-19 pandemic happened. Hamvention for 2020 and 2021 were canceled because of the virus. Thirty thousand people tightly packed would have been a perfect formula for an epidemic.

In 2022, the Hamvention committee was uncertain whether to hold the event or wait another year. If they held Hamvention and not enough people came, it would be a tremendous financial loss. Thankfully,

Continued >>>

Hamvention continued

the optimists won out and 2022 drew over 31,000 attendees, the most since the 1970's. The planning and changes made to the Greene County Fairground and local administrative changes really paid off well. The 2022 Hamvention was the best I ever attended.

Since 2022 was nearly perfect, what would the 2023 Hamvention be like? Simply said, even better. The weather was absolutely perfect all three days. That is a rarity in the Dayton area. Other less noticeable improvements were also made, including new displays for the hourly drawings and a new display system for the grand prize drawing. A bigger variety of food trucks offering a bigger selection of menu items. Improved marking in the flea market.

As far as vendors, every big-name and most of the small-name vendors were present to offer their wares. The flea market is huge and had everything ever produced for amateur radio, and all in various conditions. You can truly walk all day through the flea market and not see everything. \$57,000 of prizes were given away to attendees (no I didn't win anything this year). I don't know how they could make Hamvention any better, but I'm going back next year just to see the improvements (and maybe buy a few things too).

There were 13 TARC members at Hamvention this year. Let's see an even better TARCie showing next year.

Frank Wroblewski, W2XYZ



SK Jesse Snyder, KW4IT, memorial service May 6, 2023



A contingent of twelve TARC members attended the memorial service for Jesse Snyder, KW4IT on Saturday, May 6th. Jesse had an illustrious 38 year career with the FDIC. He was a faithful member of TARC, where he served as a Volunteer Examiner.

As mentioned last month, Jesse was noted for his disbursement of \$2 bills as payment for his breakfasts, tips, etc. In a touch that was pure Jesse, a \$2 bill was clipped inside his printed obituary distributed by Farley Funeral Home (see photo).

Farewell Jesse. You will be missed by your fellow hams.



The Venice airport Common Traffic Advisory Frequency (CTAF) now on LiveATC.net.

by Doug, WA1KRX

As a licensed private pilot living adjacent to Venice airport, I've been monitoring the airport traffic frequencies. In May I connected with Dave Pascoe KM3T, the founder/owner of LiveATC.net. This closed the loop on my interest to stream Venice aircraft audio to the Internet so I could monitor it even on the road.

From their website: "LiveATC.net is primarily a streaming audio network consisting of local receivers tuned to aircraft communications around the world. It is also a large community designed to unite pilots, student pilots, flight instructors, air traffic communication enthusiasts, FBO operators, and real-world (and virtual) air traffic controllers. Its target audience is anyone who can learn from or just enjoys listening to or discussing aviation communication topics. The community is supported by volunteers who live within radio range of airports and who use spare radio and computer equipment to relay airband transmissions into the LiveATC.net audio network."



Jack, KØVAR assembled the Tram 25-1,300MHz discone antenna and ran RG-6 to it in the attic. The coax feeds a RTL-SDR software-defined



receiver configured as an AM detector. The receiver is USB connected to the Raspberry Pi microprocessor as shown. Dave supplied the programmed processor. The processor in turn connects to the home Wi-Fi with bidirectional data.

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KVNC VFR Sectional Chart (FlightPlanner)
KVNC IFR Low Altitude Chart (FlightPlanner)
KVNC IFR High Altitude Chart (FlightPlanner)

KVNC CTAF
Feed Status: UP **Listeners:** 1
LISTEN (on browser, HTML5)
LISTEN (launches your MP3 player)
LISTEN (Windows Media Player)
Archive Access: KVNC CTAF
Facility **Frequency**
Venice CTAF 122.725

KVNC Emergency/Guard
Feed Status: UP **Listeners:** 0
LISTEN (on browser, HTML5)
LISTEN (launches your MP3 player)
LISTEN (Windows Media Player)
Archive Access: KVNC Emergency/Guard
Facility **Frequency**
Emergency/Guard 121.500

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To hear the radio traffic go to the www.liveatc.net webpage. Enter the Airport/ARTCC Code KVNC. That will bring up the page shown with links to 122.725 and 121.5 MHz audio. The page also has links to flight tracking, area sectional charts and more. This website currently hosts feeds from over 3100 airports.

Happy listening!
Doug, WA1KRX

Build a Keyer .. Learn the Code!



.. in that order, or not

by Tom, K7ONE

The year was 1969. Of the year's many notable firsts - man walked on the moon, and my first attempt to learn Morse code. The moon was conquered but I am still learning...

The most recent attempt was spawned by the purchase of a very nice little

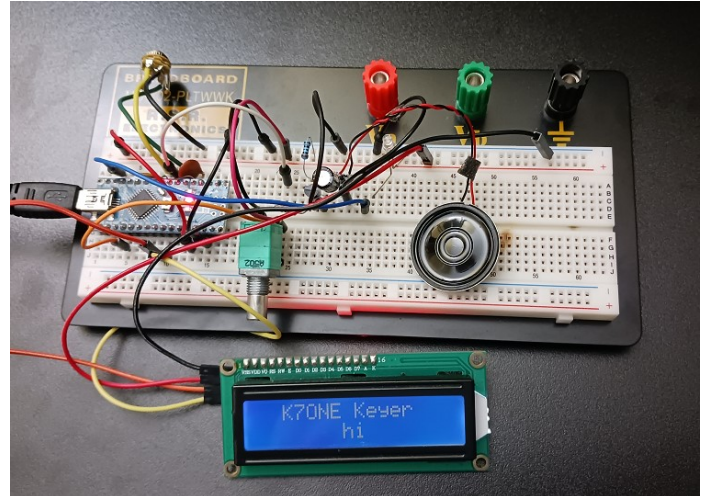
CW paddle for \$42 on eBay. While I could hook this paddle to a radio to use its' keyer to practice, I thought it would be good to have something more portable, and everyone knows I like a building things. Another feature I really wanted was a keyer that will display what I think I keyed. That is a very useful feature. I ordered a Morserino but couldn't wait for it to be delivered.

A quick search for "Arduino keyer" led me to the "K3NG Arduino CW Keyer". This is an open source program with a list of 50 possible features you can enable as desired. The program is the basis of many keyers sold, such as the NanoKeyer. All of the kits I found were basically set up as memory keyers but none had the display I wanted – so off to the parts boxes.

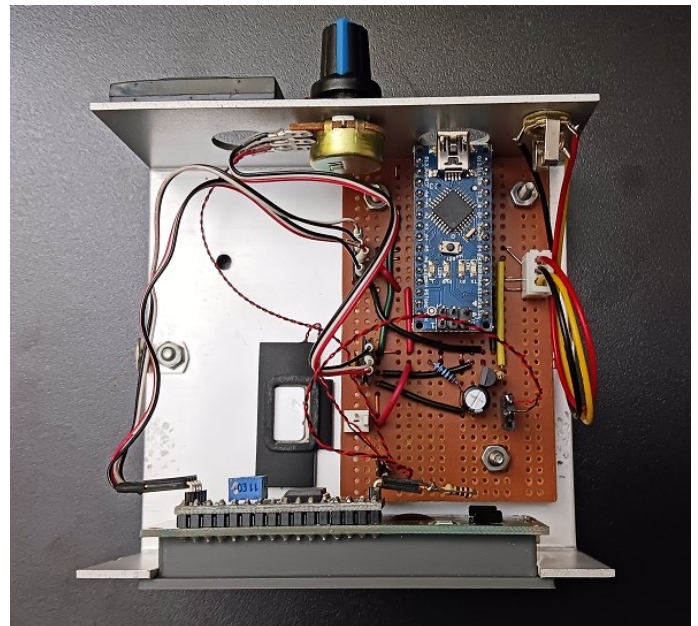
Features are selected in the "sketch" (program) by simply un-commenting specific lines in the code. There are many YouTube videos explaining how to do this. Some are very well done. I selected paddle input, potentiometer speed control, and LCD display. I may add memory keyer in the future.

Using an Arduino UNO or Nano will quickly fill up the available memory, so you cannot just enable every feature if you use these low end models. For more features it would be good to use an Arduino MEGA with a reduced form factor. Some simple schematics were available from the download site. I always breadboard projects before firing up the soldering iron. The sketch compiled and uploaded without difficulty, and the breadboard came to life! With another trip to the junk box and a little 3D printing, a permanent enclosure materialized.

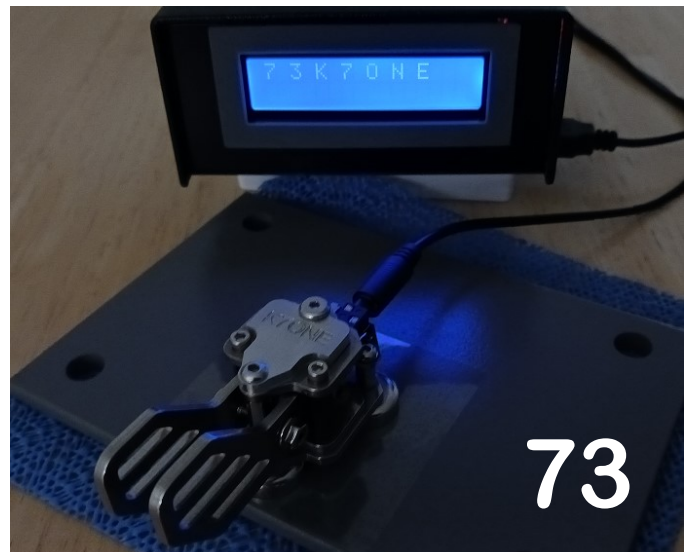
I now pledge to learn Morse code by the time man walks on the moon again....or maybe Mars.



Breadboard keyer



Not the prettiest but functional



73



~ June, 2023 ~

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			~ See Groups IO for ZOOM sign-on	1 * 2 meter net 7:30 PM followed by + 10 meter net	2 Breakfast @ Perkins 9A	3 Breakfast @ DAV 9:30 A BOD 1P
4	5	6 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	7 ~ Virtual breakfast via ZOOM 10 AM	8 * 2 meter net 7:30 PM followed by + 10 meter net	9 Breakfast @ Perkins 9A	10 Bkfst @ DAV 9:30 TARC VE session @ Venice Library 10 A
11	12 DARN net 11:00 AM Starts on NI4CE/rpt 145.43 pl100	13 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	14 ~ Virtual breakfast TARC MTG 7:00 PM @ Venice Presbyterian Church	15 * 2 meter net 7:30 PM followed by + 10 meter net	16 Breakfast @ Perkins 9A	17 Breakfast @ DAV 9:30 A
18 	19	20 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	21 ~ Virtual breakfast via ZOOM 10 AM	22 * 2 meter net 7:30 PM followed by + 10 meter net	23 Breakfast @ Perkins 9A	24 Breakfast @ DAV 9:30 A 
25 	26	27 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	28 ~ Virtual breakfast via ZOOM 10 AM	29 * 2 meter net 7:30 PM followed by + 10 meter net	30 Breakfast @ Perkins 9A	

DMR net on W4AC UHF repeater - 444.10 MHz - Talk Group 310442
 * 2 meter net on W4AC VHF repeater - 146.805 MHz, (-), PL 100 or W4AC-R EchoLink
 + 10 meter net on 28.460 MHz +/- 10 MHz (depending on band activity) immediately following 2 M net.

THE COMMUNICATOR is a publication of the Tamiami Amateur Radio Club (TARC). It is published monthly; except during the summer months, the July and August issues will be combined. The Communicator is forwarded to all members via e-mail, and is available for viewing on the club's web site - www.tamiamiarc.org - Webmaster - Paul Nienaber, KN4BAR.

Editor - San Yoder, K3SY, who acknowledges and thanks these contributing writers this month: Paul Nienaber, KN4BAR, Gary Youngberg, W8SKI, Tony DiCenzo, KX1G, Frank Wroblewski, W2XYZ, Doug Griffin, WA1KRX, and Tom Babcock, K7ONE.

Articles of general interest to club members are solicited and welcomed. Please submit photos and/or copy (preferably in Word) to : k3sy@arrl.net. 73, San

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TARC web site: <http://www.tamiamiarc.org>

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